P&ID/PFD SYMBOLS (GENERAL INSTRUMENT OR FUNCTION SYMBOLS)

LINE TYPES						
FILE NAME	SYMBOL	LINE TYPE	DESCRIPTION			
		CONTINUOUS .BOMM	PRIMARY PROCESS FLOW LINE			
		CONTINUOUS .35MM	SECONDARY PROCESS FLOW LINE			
		CONTINUOUS .25MM	INSTRUMENT SUPPLY OR CONNECTION TO PROCESS			
		HIDDENX2	ELECTRIC SIGNAL			
P001	~ ~	CONTINUOUS	ELECTROMAGNETIC OR SONIC SIGNAL ** (NOT GUIDED)			
P002	$\overline{}$	CONTINUOUS	UNDEFINED DIGITAL			
P003		CONTINUOUS	PNEUMATIC SIGNAL *			
P004		CONTINUOUS	HYDRAULIC SIGNAL			
P005		CONTINUOUS	CAPILLARY TUBE			
P006	~~~	CONTINUOUS	ELECTROMAGNETIC OR SONIC SIGNAL ** (GUIDED)			
P007	~	CONTINUOUS	INTERNAL SYSTEM LINK (SOFTWARE OR DATA LINK)			
POOB		CONTINUOUS	MECHANICAL LINK			
	OPTIONAL BI	PTIONAL BINARY (ON-OFF) SYMBOLS				
P009		CONTINUOUS	PNEUMATIC BINARY SIGNAL			
P009A		DASHED2	ELECTRIC BINARY SIGNAL			
P010		NOT USED				
P011	EE	CONTINUOUS	ELECTRICAL HEAT TRACING			
P011A	<u>—SS</u>	CONTINUOUS/DASHED2	STEAM HEAT TRACING			
		DASHED2	BURIED LINES			
		PHANTOM	EXISTING			
	xx	CENTER	FP — FLOOR PENETRATION RP — ROOF PENETRATION			
			WP - WALL PENETRATION			
			SB - SYSTEM BREAK			
NOTER						

NOTES:

"OR" MEANS USER CHOICE. CONSISTANCY IS RECOMENDED.

- * THE PNEUMATIC SIGNAL SYMBOL APPLIES TO A SIGNAL USING ANY GAS AS THE SIGNAL MEDIUM. IF GAS OTHER THAN AIR IS USED, THE GAS MAY BE IDENTIFIED BY A NOTE ON THE SIGNAL SYMBOL OR OTHERWISE.
- ** ELECTROMAGNETIC PHENOMENA INCLUDE HEAT, RADIO WAVES, NUCLEAR RADIATION, AND LIGHT.

INSTRUMENT/FUNCTION SYMBOLS							
	PRIMARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR	FIELD MOUNTED	AUXILIARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR	AUXILIARY LOCATION NORMALLY INACCESSIBLE TO OPERATOR			
DISCRETE INSTRUMENTS	P012 XX	P016 (XX)	POZO XX	POZ4 XXX			
SHARED DISPLAY. SHARED CONTROL	P013	PO17	PO21	P025 XXX			
COMPUTER FUNCTION	P014 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	PO18 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	PO22 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	P026 $\left\langle \frac{\overline{XX}}{\overline{XXX}} \right\rangle$			
PROGRAMMABLE LOGIC CONTROL	P015 XXX	PO19	PO23	P027			
FILE SYMBOL	DESCRIPTION						
P028 ·	FLOW INDICATOR						
P029 XXX XXX XXX		INSTRUMENTS SHARING COMMON HOUSING					
PO3D XXX	PANEL MOUNTED POINT 12	PATCHBUARD					

FILE NAME	SYMBOL	DESCRIPTION	
P031	※	P=PURGE OR FLUSHING DEVICE R=RESET FOR LATCH-TYPE ACTUATOR I=UNDEFINED INTERLOCK LOGIC	
P031A	A	SIGNAL DIRECTIONAL ARROW	
P032	X	S=SOLENOID D=DIGITAL P=PILOT T-TRAP M-MACNETIC FLOWMETER SP-SET POINT	
P032A	V	ROOT EXTRACTION	
P032B	±	BIAS	
P0320	×	MULTIPLY	
P0320		HIGH SELECTING	
P032E	<u> </u> ≤	LOW SELECTING HIGH LIMITING	
P032G	<u>^</u>	LOW LIMITING	
P032H	K	PROPORTIONAL	
P032I	-K	REVERSE PROPORTIONAL	
P032J	+	5UM MING	
P032K	÷	DMDING	
P033	CA-1	EQUIPMENT TAG	
P034	43	PIPING CLASS BREAK OR ML CLASSIFICATION CHANGE	
P035	\(\sum_{\text{\chi}}^{\text{\chi}-\text{\chi}} \)	PIPE OR WIRE IS CONTINUED ON DRAWING X (INCLUDING SHEET NUMBER), GRID COORDINATE (Y-#); FLOW IS TO THAT DRAWING, OR REFERENCE POINT.	
P036	X Y-#	PIPE OR WIRE IS CONTINUED ON DRAWING X (INCLUDING SHEET NUMBER), GRID COORDINATE (Y-#); FLOW IS FROM THAT DRAWING, OR REFERENCE POINT.	
P037		PIPE OR WIRE IS CONTINUED ON DRAWING X (INCLUDING SHEET NUMBER), GRID COORDINATE (Y-#); FLOW IS IN BOTH DIRECTIONS.	
РОЗВ	NOT USED		

